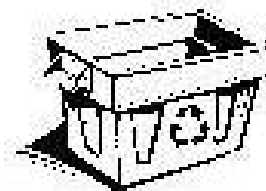


## **Integrated Waste Management Curricula**



# Closing the Loop: Exploring Integrated Waste Management and Resource Conservation

California Integrated Waste Management Board  
Public Education and Assistance Section  
8800 Cal Center Drive, Mail Station #5  
Sacramento, CA 95826  
(916) 255-2385



No charge to California educators who participate in a workshop. 2000. 650 p.

Completely revised and updated in 2000, *Closing the Loop: Exploring Integrated Waste Management and Resource Conservation* applies K-6 level project-based learning to examine issues related to integrated waste management and resource conservation. In the K-3 module, twenty-three lessons are organized within five units entitled Conserving Natural Resources; Reducing, Reusing, and Recycling Classroom Waste; Vermicomposting; Proper Disposal of Waste; and Proper Management of Household Hazardous Waste. Extensive appendices include vocabulary lists, an overview of integrated waste management, an overview of the handling specific materials, information to establish composting systems, and websites.

## REPORT CARD

Overall Grade	A
General Content	A+
Presentation	A-
Pedagogy	A
Teacher Usability	A
Integrated Waste	A+

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"This is a very current (1999) and comprehensive curriculum. Lessons are appropriate to students' lives."

### Presentation

Draft edition without camera-ready format was reviewed for this project.

### Pedagogy

"Strong language arts integration."

"Field testing is extensively documented."

"Lessons are age appropriate, highly engaging, and literature-based."

"Student investigations are quite effective."

### Teacher Usability

"Lessons are lengthy and a lot of preparation time is needed."

"Very detailed directions and descriptions."

### Specific Content

"This manual encompasses the entire waste management hierarchy."

"The appendix is detailed, listing many appropriate and helpful resources as well as additional background information."

# Rethinking Recycling

Oregon Department of Environmental Quality  
811 SW Sixth Avenue  
Portland, OR 97204  
(503) 229-5913



\$33.00 for entire curriculum and \$6.00 for video (no charge to Oregon educators).  
1993. Packaged folder of materials.

*Rethinking Recycling, an Oregon Waste Reduction Curriculum* is a comprehensive package consisting of four grade-group levels of Classroom Activity Packets (K-2, 3-5, 6-8, and 9-12), a Teacher Resource Guide (63 p.), recycling and waste reduction booklet (18 p.), and video, "The Recycle Lifecycle of Glass." The Teacher Resource Guide provides background information, fact sheets, reprints of articles, suggested instructional methods, and lists of additional resources. At the K-2 level, the Classroom Activity Packet consists of twelve lessons and related handouts designed to make students aware of waste issues and take action to reduce the amount of trash they and their families produce.

## REPORT CARD

Overall Grade	A-
General Content	B+
Presentation	B+
Pedagogy	A-
Teacher Usability	A-
Integrated Waste	A

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"This curriculum offers very straightforward and concrete lessons on recycling. Lessons are simple, yet spiral through awareness and understanding and lead to responsible actions that even young children can do to develop lifelong habits of sustainability."

### Presentation

"Would like to see it spiral bound rather than loose within a folder."

### Pedagogy

"Activities are very student centered, empowering them to change the way they and their families view and deal with consumption and waste."

"Some concepts may be too difficult for kindergarten students."

### Teacher Usability

"The twelve lessons in each grade-group unit are very concise and teacher friendly."

"The beginning teacher could pick up this unit and use it easily."

# Action for a Cleaner Tomorrow

South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, SC 29201  
(800) 768-7348



No charge. 1998. 569 p.

Revised in 1998, *Action for a Cleaner Tomorrow* (K-8 edition) addresses numerous environmental issues, including the impact of litter and garbage, and the effects of recycling, composting, and conserving natural resources on both a regional and global level. Interdisciplinary lessons are divided by grade levels (K-1, 2-3, 4-5, and 6-8) and are supported by an extensive resource section covering background information, glossary, and a list of books and videos.

## REPORT CARD

Overall Grade	B+
General Content	A-
Presentation	B+
Pedagogy	B+
Teacher Usability	A-
Integrated Waste	A-

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"A very comprehensive curriculum."

### Presentation

Since this compendium project, *Action for a Cleaner Tomorrow* has been redesigned.

"Nice format. Good student visuals."

### Pedagogy

"The number of activities and their conceptual presentation create a storyline for K-3."

"Activities look fun and easy to follow."

"Nice extension activities."

"K-1 lessons are grouped together as are 2-3 lessons, making it easier for teachers to find appropriate material. Lessons are not inquiry-based, however, and they could use more opportunity for active learning."

### Teacher Usability

"Excellent resource section" (bibliography of books, videos, periodicals, and glossary).

### Specific Content

"This curriculum supplement was produced specifically for South Carolina."

# Think Earth

Educational Development Specialists  
5505 East Carson Street, Suite 250  
Lakewood, CA 90713  
(562) 420-6814



\$50.00 per grade-level unit. 1998. Packaged kit.

*Think Earth* is a complete instructional K-6 package that features a teacher guide, story cards, posters, practice cards, reproducible masters, and a seven-minute video. Each grade-level set of activities focuses on the conservation of natural resources and reduction of waste and pollution. The kindergarten unit introduces the concept of environment and encourages students to practice “think earth” behaviors, the grade one unit explores the use and conservation of natural resources, the grade two unit explores waste management, and the grade three unit addresses pollution issues.

## REPORT CARD

<b>Overall Grade</b>	<b>B+</b>
<b>General Content</b>	<b>B+</b>
<b>Presentation</b>	<b>B+</b>
<b>Pedagogy</b>	<b>B+</b>
<b>Teacher Usability</b>	<b>B+</b>
<b>Integrated Waste</b>	<b>A-</b>

<b>DISCIPLINE</b>	<b>EMPHASIS</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

“In just five lessons, students understand the basic concepts of waste management.”

### Presentation

The caricature of earth is anthropomorphic. “Graphically, a ‘sneezing’ earth equates to bad science.”

“Features colorful posters, story cards, and fun songs.”

### Pedagogy

“Most learning sequences are based on videos and fill-in-the-blank worksheets.”

“Each grade specific unit is sequential and builds upon prior knowledge, yet can stand alone. Each unit focuses on specific behaviors that should emerge from the concepts and skills presented.”

### Teacher Usability

“Story cards could be used to augment other curricula.”

“Several activities require extensive prior knowledge.”

“Nearly all the materials needed are included in the program.”

“Well-scripted materials!”

# Pathways to a Sustainable Future

The Chewonki Foundation  
485 Chewonki Neck Road  
Wiscasset, ME 04578  
(207) 882-7323



\$19.95. 1999. 198 p.

Recently revised, *Pathways to a Sustainable Future, A Curriculum Guide for Schools Exploring Waste Management Issues* presents several routes of exploration, from awareness pathways ("What is the waste problem?") to assessment pathways ("How are we doing?") to action pathways ("How can we have an impact on the waste problem?"). Designed for K-12 classrooms, the material offers background information, activities, and support material on composting, hazardous waste, recycling and reuse, source reduction, landfilling, and incineration.

## REPORT CARD

Overall Grade	B+
General Content	A-
Presentation	B
Pedagogy	B+
Teacher Usability	B+
Integrated Waste	A-

DISCIPLINE	EMPHASIS	0	1	2	3
Science		_____			
History/Social Science		_____			
Health		—			
Mathematics		_____			
Visual/Performing Arts		—			
Language Arts		_____			
Industrial/Vocational Ed.		—			
Foreign Language		—			

## COMMENTS

### General Content

"*Pathways* starts out with an engaging story. The creative activities that follow teach waste management concepts that connect to actions performed at home."

### Presentation

Revised and reprinted in 1999.

### Pedagogy

"Easily shows how lessons can be adapted to a variety of age levels."

"Activities connect awareness to action and build upon prior discoveries."

"Some of the K-3 lessons are too advanced and need more concrete examples."

### Teacher Usability

"Time allotments are not indicated in the lessons."

"Background information is easy to read and understand."

"Novel approach to curriculum development, allowing the teacher to create the conceptual flow by choosing lessons from awareness, assessment, and action pathways."

# A-Way with Waste

Washington State Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue, SE  
Bellevue, WA 98008



No charge. 1990. 574 p.

Quantities are limited. Permission is granted to educators to reproduce lesson plans from CIWMB masters for classroom use, provided credit is given to WSDE.

The third edition of *A-Way with Waste* offers a comprehensive collection of activities written for grades K-12. Eighty-six activities from the second edition are combined with over thirty new activities and presented in three sections: Solid Waste Management (including 3 subsections: Reduce, Recycle, Dispose); Hazardous Waste; and Waste and Water. Fact sheets and teacher background material introduce each section; a bibliography and glossary are provided at the conclusion.

## REPORT CARD

Overall Grade	B+
General Content	A-
Presentation	B
Pedagogy	B+
Teacher Usability	B+
Integrated Waste	A-

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"This is a K-12 curriculum with primary lessons woven throughout."

### Presentation

Nicely organized in one binder, "but unwieldy in size."

### Pedagogy

"Assessment strategies are offered for each lesson."

### Teacher Usability

"The guide is well organized and easy for teachers to use. Lessons connect for understanding."

"Lessons are listed alphabetically and referenced to grade level to expedite finding appropriate lessons."

Background information is limited.

### Specific Content

A comprehensive curriculum covering numerous integrated waste management issues.

# Environmental Protection Native American Lands

Center for Indian Community Development  
Humboldt State University  
Arcata, CA 95521  
(707) 826-3711



\$25.00. 1996. 290 p.

*Environmental Protection Native American Lands: A Cultural Approach to Integrated Environmental Studies* is designed to cultivate a sense of place by studying the relationship between human activity and the land. Fifty-two lessons for grades 1-12 build upon Native American traditions and beliefs, specifically reflecting the cultures of the Hupa, Karuk, and Yurok people of northern California. Integrated waste management issues, including solid waste and pollution, and waste management practices, including recycling, composting, and vermiculture are explored throughout the curriculum.

## REPORT CARD

<b>Overall Grade</b>	<b>B+</b>
<b>General Content</b>	<b>A-</b>
<b>Presentation</b>	<b>B+</b>
<b>Pedagogy</b>	<b>B+</b>
<b>Teacher Usability</b>	<b>B+</b>
<b>Integrated Waste</b>	<b>B</b>

<b>DISCIPLINE</b>	<b>EMPHASIS</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
Science		—			
History/Social Science		—			
Health		—			
Mathematics		—			
Visual/Performing Arts		—			
Language Arts		—			
Industrial/Vocational Ed.		—			
Foreign Language		—			

## COMMENTS

### General Content

"The emphasis of this curriculum is on appreciation and awareness of the environment utilizing a cultural approach."

### Presentation

"Easy to follow procedures which address the stated goals and objectives. Well developed sequence of lessons."

### Pedagogy

"Relies heavily on introspection and personal commitment to environmental causes; may not be appropriate at the K-3 level."  
"Strongly centered in the affective domain."

### Teacher Usability

"The target population is children on tribal lands of northern California. For others, it is to serve as a 'guidepost' for developing material useful to native people."

### Specific Content

At the primary level, lessons on composting and vermicomposting are offered.  
"The global perspective of this curriculum is impressive!"

# NatureScope: Pollution Problems and Solutions

McGraw-Hill, Inc.  
Customer Services  
P.O. Box 545  
Blacklick, OH 43004-0545  
(800) 722-4726



\$12.95. 1998. 110 p.

Created by the National Wildlife Federation for grades K-8, *NatureScope: Pollution Problems and Solutions* blends science, language arts, social science, and art to generate an understanding of the natural world and the environmental issues we face within it. Teacher background sections are followed by creative activities and ready-to-copy activity sheets for five topical areas: Pollution, Trash and Toxics, Up in the Air, Troubled Waters, and Choices and Challenges. Glossary, list of pollution laws, and an expanded, updated resource section are also included.

## REPORT CARD

<b>Overall Grade</b>	<b>B</b>
<b>General Content</b>	<b>B+</b>
<b>Presentation</b>	<b>B</b>
<b>Pedagogy</b>	<b>B</b>
<b>Teacher Usability</b>	<b>A-</b>
<b>Integrated Waste</b>	<b>B</b>

<b>DISCIPLINE</b>	<b>EMPHASIS</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

Updated in 1998, *NatureScope* is a supplemental resource covering a broad spectrum of pollution issues.

### Presentation

Engaging graphics and "Copycat Pages."

### Pedagogy

"Action components are sidebars rather than part of the lessons."

### Teacher Usability

*NatureScope* offers extensive background information.

"Good supplemental activities for integration into an existing curriculum."

"The recently expanded resource section cites additional environmental education materials and wonderful suggestions for developing 'green schools.'"

"Activities are more appropriate for third grade and up."

### Specific Content

"Deals with diverse and current topics, including a range of pollution issues."

# Ecology in Action

The Ecology Center  
2530 San Pablo Avenue  
Berkeley, CA 94702  
(510) 548-2220



\$11.00. 1990. 126 p.

*Ecology in Action - Recycling Education Curriculum* is a compilation of activities organized sequentially, using awareness, values, knowledge, problem solving, and action-taking as activity organizers. Thirty activities, some of which are drawn from other sources, are designed to help K-6 level students learn the value of and methods for reducing garbage by applying the three R's: reducing, reusing, and recycling. Worksheets, fact sheets, and bibliography are also featured.

## REPORT CARD

Overall Grade	B
General Content	B
Presentation	B-
Pedagogy	B
Teacher Usability	B
Integrated Waste	B+

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"A comprehensive collection of activities which are connected through introductory sections designed for the teacher."

"Most of the activities are derived from other sources which subsequently have been revised."

### Presentation

Photocopied edition was reviewed for this project.

### Pedagogy

"Age appropriate activities are presented within each lesson."

"Instructional objectives are not specified."

### Teacher Usability

"Suggested grade levels are stated at the beginning of lessons to help teachers sort through the packet."

"Contains dated material requiring teachers to seek more recent information."

### Specific Content

"Some of the material is specific to Berkeley."

# The No-Waste Anthology

Environmental Education Coordinator  
California Department of Toxic Substances Control  
P.O. Box 806  
Sacramento, CA 95812  
(916) 324-3614



No charge to California educators. 1991. 320 p.

*The No-Waste Anthology, a Teacher's Guide to Environmental Activities K-12* is a compilation of material derived from other sources, reorganized into a single document. Seventy-six activities are organized into three sections: Natural Resources and Pollution, Solid Waste, and Hazardous Waste. Teacher background information, waste glossary, and an extensive cross-correlation of activities are also provided.

## REPORT CARD

Overall Grade	B
General Content	B
Presentation	B-
Pedagogy	B
Teacher Usability	A-
Integrated Waste	B

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"This is a wonderful anthology of some of the best waste management material available for the K-12 classroom."

### Presentation

"It would be helpful if grade levels were listed in the Table of Contents."

### Pedagogy

"There are some very good lessons here that actively engage the students and get them thinking. Many of the lessons could be easily adapted to other ages."

"If you are looking for a 'few good lessons' on a particular waste management topic, this works. If, however, you are looking for a curriculum with unifying themes and conceptual flow, you will have to develop your own matrix."

### Teacher Usability

"It's easy to have activities cross-referenced in a variety of ways in the appendices."

"Very reader friendly."

# Let's Reduce and Recycle: Curriculum for Solid Waste Awareness

United States Environmental Protection Agency  
National Center for Environmental Publications and Information  
P.O. Box 42419  
Cincinnati, OH 45242  
(800) 424-9346



No charge. 1990. 144 p.

*Let's Reduce and Recycle* offers a series of activities focusing on the impact of garbage on the environment and the application of waste prevention and recycling techniques. Divided into two sections, grades K-6 and 7-12, each contains five units that address the following concepts: What is Waste?, Where Does Waste Go?, How Does Waste Affect Our Resources?, How Can We Produce Less Waste?, and What Can We Do About Waste? Additional features include a glossary, a script to "Throwaway Three," list of state solid waste agencies, and educational resources.

## REPORT CARD

Overall Grade	B
General Content	B+
Presentation	B
Pedagogy	B-
Teacher Usability	B
Integrated Waste	B+

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### Presentation

"Easy to read. Great worksheets."  
"Interesting clip art to copy and use with particular lessons."  
"Clear concise format."

### Pedagogy

"The activities are nearly all 'paper-pencil' with little opportunity for active learning for the K-3 student."

### Teacher Usability

"Lessons for K-6 are divided into five units with clearly stated objectives and corresponding icons."  
"A teacher friendly manual."

### Specific Content

Issues include source reduction, waste reduction, the three R's, litter prevention, natural resource conservation, consumerism and economics.

# Garbage Reincarnation

Garbage Reincarnation, Inc.  
Sonoma County Community Recycling  
P.O. Box 1375  
Santa Rosa, CA 95402  
(707) 584-8666



\$8.95. No date. 51 p.

*Garbage Reincarnation, Interdisciplinary Approach to Materials Conservation and Recycling* is a packet of K-6 level lessons related to recycling and resource conservation. Twenty activities are sequentially arranged, beginning with a definition of waste, a discussion of methods used to handle waste, and concluding with strategies to establish community recycling programs.

## REPORT CARD

Overall Grade	B-
General Content	B
Presentation	B-
Pedagogy	B
Teacher Usability	B-
Integrated Waste	B+

DISCIPLINE	EMPHASIS	0	1	2	3
Science		—			
History/Social Science		—			
Health		—			
Mathematics		—			
Visual/Performing Arts		—			
Language Arts		—			
Industrial/Vocational Ed.		—			
Foreign Language		—			

## COMMENTS

### General Content

"This packet of waste management activities can be arranged to support four separate approaches: concept centered, student centered, values clarification, or random selection."

"Offers many activities that promote awareness of the need for conservation and solid waste management."

### Presentation

"Not as graphically appealing as others."

### Teacher Usability

"This curriculum appears dated."

"Grade levels are not listed."

### Specific Content

"A comprehensive program with some unique ideas."

# Waste in Place

Keep America Beautiful, Inc.  
1010 Washington Blvd.  
Stamford, CT 06901  
(203) 323-8987



\$40.00. 1997. 132 p.

The sixth edition of *Waste in Place* explores the management of municipal solid waste and prevention of litter. Thirty-three interdisciplinary K-6 activities are organized into seven sections entitled Litter Prevention, How We Manage Garbage, Understanding Waste Management, Waste Reduction, Recycling/Composting, Waste-to-Energy/Landfill, and Enrichment. Parent information, consent letter, article reprints, and glossary of terms are also provided.

## REPORT CARD

Overall Grade	B-
General Content	B
Presentation	B-
Pedagogy	B
Teacher Usability	B+
Integrated Waste	B-

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

*Waste in Place* is a behaviorally oriented curriculum that seeks to change attitudes and practices related to waste management and litter prevention. “

### Presentation

“I liked the baked pizza image for visual representation of a pie graph of solid waste by weight!”

### Pedagogy

“Assessment is offered at the end of each lesson.”

“The majority of lessons require reading and math skills beyond the ability of the primary student.”

### Teacher Usability

“Activities are more appropriate at the 4-6 level, rather than K-3 level.”

“Provides twenty pages of recent data in narrative and graph form as an overview of waste management.”

### Specific Content

*Waste in Place* focuses on waste reduction and litter prevention.”

# Trash Today, Treasure Tomorrow

Office of State Planning  
Governor's Recycling Program  
2 ½ Beacon Street  
Concord, NH 03301  
(603) 271-1098



\$12.50. 1990. 308 p.

*Trash Today, Treasure Tomorrow* is a compilation of K-6 activities designed to increase awareness of the strategies used to manage solid waste. Through hands-on science activities, literature, art, mathematics, and social science, students examine the role of source reduction, recycling and reuse, incineration, and landfilling. In addition, they examine their own role in the production and handling of waste. Some of the background information is based on New Hampshire data, but can be modified for application elsewhere.

## REPORT CARD

Overall Grade	B-
General Content	B
Presentation	B-
Pedagogy	B
Teacher Usability	B
Integrated Waste	B

DISCIPLINE	EMPHASIS	0	1	2	3
Science		_____			
History/Social Science		_____			
Health		_____			
Mathematics		---			
Visual/Performing Arts		---			
Language Arts		_____			
Industrial/Vocational Ed.		---			
Foreign Language		---			

## COMMENTS

### General Content

"This curriculum was developed to address waste management issues in New Hampshire."

### Presentation

"Each grade level is separated and labelled, and evaluation is offered at the end of each lesson."

### Pedagogy

"The material is organized according to grade group level (kindergarten readiness, grades 1-2, and grades 3-4) making it easy for teachers to peruse. It has many useful activities that with excellent pedagogical strategies could become constructive lessons."

### Teacher Usability

"Materials need to be reformatted and updated."

### Specific Content

"A supplement useful for inclusion in an integrated waste management program."

# Living Lightly in the City

Schlitz Audubon Center  
1111 East Brown Deer Road  
Milwaukee, WI 53217  
(414) 352-2880



\$24.00. 1993 (reprinted). 178 p.

The *Living Lightly* series is comprised of four volumes of environmental education material for grades K-12. For the primary grades, *Living Lightly in the City, Volume I* offers activities that encourage students to explore various aspects of their immediate environment while avoiding the complexities of environmental issues. Lessons are organized within six units: Checking Out the Neighborhood, Sprouting and Growing (plant life), Jumping, Flying and Singing (animal life), Community Connections, Heating, Lighting and Moving, and Living Lightly.

## REPORT CARD

<b>Overall Grade</b>	<b>B-</b>
<b>General Content</b>	<b>B</b>
<b>Presentation</b>	<b>B</b>
<b>Pedagogy</b>	<b>B+</b>
<b>Teacher Usability</b>	<b>B+</b>
<b>Integrated Waste</b>	<b>C+</b>

<b>DISCIPLINE</b>	<b>EMPHASIS</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"This is a great resource packet of activities. Lessons within each unit are well connected so that the unit could stand alone."

The ultimate purpose of *Living in the City* at the primary level is to promote appreciation of the natural world.

### Pedagogy

"Very appropriate for the kindergarten and first grade levels - highly sensory."

"The emphasis is upon enjoyment of the environment - giving the kids a sense of wonder."

"This curriculum has been intentionally designed to emphasize wonder and appreciation of the environment, leaving weightier global environmental issues for a later level when it is more developmentally and cognitively appropriate."

### Teacher Usability

"I liked the topic index."

### Specific Content

While *Living in the City* is a comprehensive environmental education curriculum, only a portion examines integrated waste management.

# Activities Guide to Solid Waste and Recycling

Sacramento County Waste Management and Recycling Division  
9850 Goethe Road  
Sacramento, CA 95827  
(916) 875-6789



No charge to educators in the unincorporated Sacramento area. 1995. 54 p.  
Also available to other California educators upon special request.

Designed for grades 2- 6, the *Activities Guide to Solid Waste and Recycling* offers nine lessons to create awareness among students of how their daily action affects the environment. Students apply map reading skills to locate landfills, create a mini landfill in their classroom, use a calculator to determine how much garbage is produced in a day, and conduct a recycling drive. Although the curriculum uses regional (Sacramento) data in the background information, this information can be modified for application elsewhere. One activity is based on a field trip to the Keifer Landfill in Sacramento County.

## REPORT CARD

Overall Grade	B-
General Content	B
Presentation	B-
Pedagogy	B
Teacher Usability	B+
Integrated Waste	B-

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"Activities are designed to be integrated into existing curricula."

"Useful for pre-trip preparation before a field trip to a landfill."

### Presentation

"Nice precise lesson format!"

### Pedagogy

"While the lessons are designed for grades 2-6, some require math skills that are more appropriate for upper elementary."

### Teacher Usability

"Lesson outcomes are clear, but developmentally inappropriate for the K-3 level."

"Glossary of terms is helpful."

### Specific Content

"The primary focus of this curriculum is on landfills and solid waste with particular emphasis on the Sacramento area."

# Counting on People

Zero Population Growth, Inc.  
1400 16<sup>th</sup> Street, NW, Suite 320  
Washington, DC 20036  
(202) 332-2200



\$19.95. 1994. 147 p.

*Counting on People: Elementary Population and Environmental Activities* offers thirty-two lesson plans for grades 1-6. Global population dynamics and environmental issues, including limits to growth, natural resource use, and waste production are introduced through background information, songs, poetry, stories, and a variety of multidisciplinary activities. Natural resource consumption and waste production are addressed primarily in sections six and seven, representing approximately one-third of the book's activities.

## REPORT CARD

Overall Grade	B-
General Content	B
Presentation	B
Pedagogy	B-
Teacher Usability	B-
Integrated Waste	B-

DISCIPLINE	EMPHASIS	0	1	2	3
Science					
History/Social Science					
Health					
Mathematics					
Visual/Performing Arts					
Language Arts					
Industrial/Vocational Ed.					
Foreign Language					

## COMMENTS

### General Content

"*Counting On* offers lessons on population dynamics which may be effective in setting the stage for other, more complete integrated waste management curricula."

### Pedagogy

"The activities in each chapter are connected thematically."  
"Math integration activities are useful for upper elementary."

### Teacher Usability

"In the front it would be helpful to list activities with grade levels."

### Specific Content

"Its integrated waste management lessons are few, making its use for studies in integrated waste management limited."